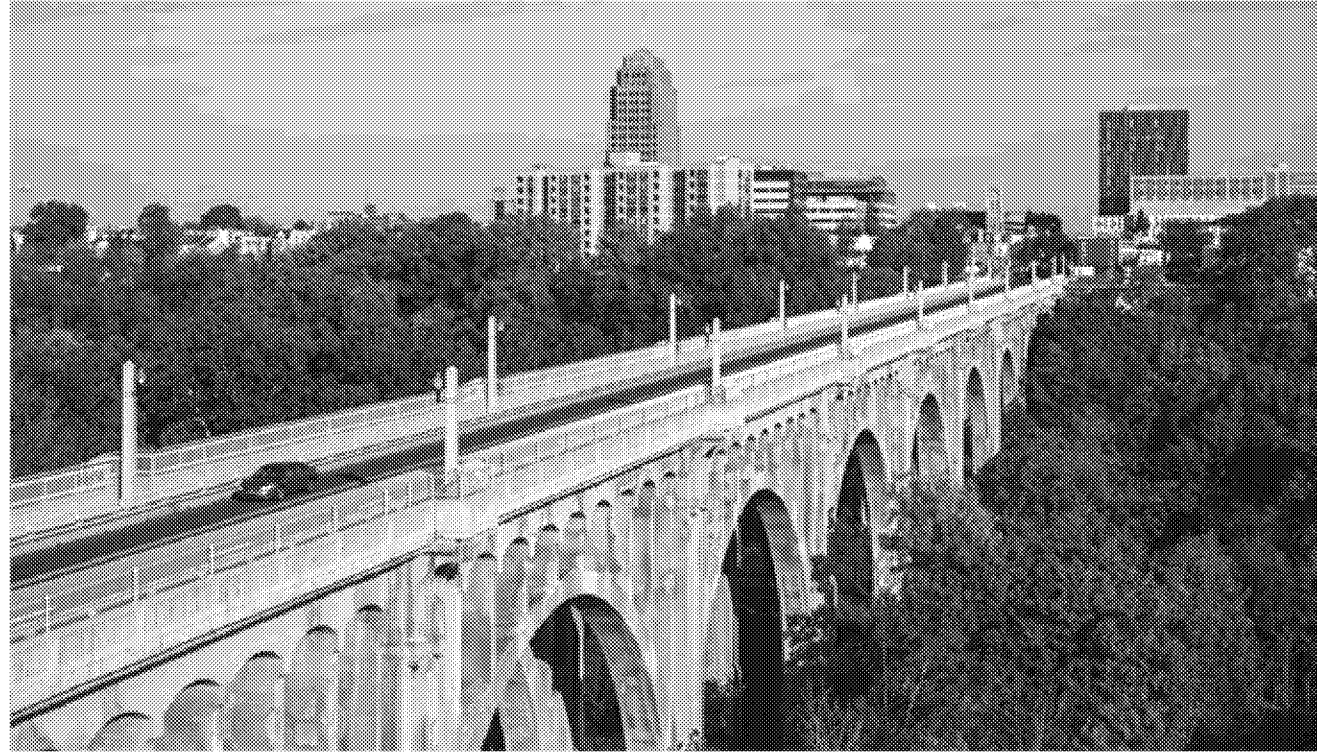


Ethylene Oxide and Risk in the Allentown, PA Community



Why we are here today

1

Pollution is increasing health risks in your neighborhood.

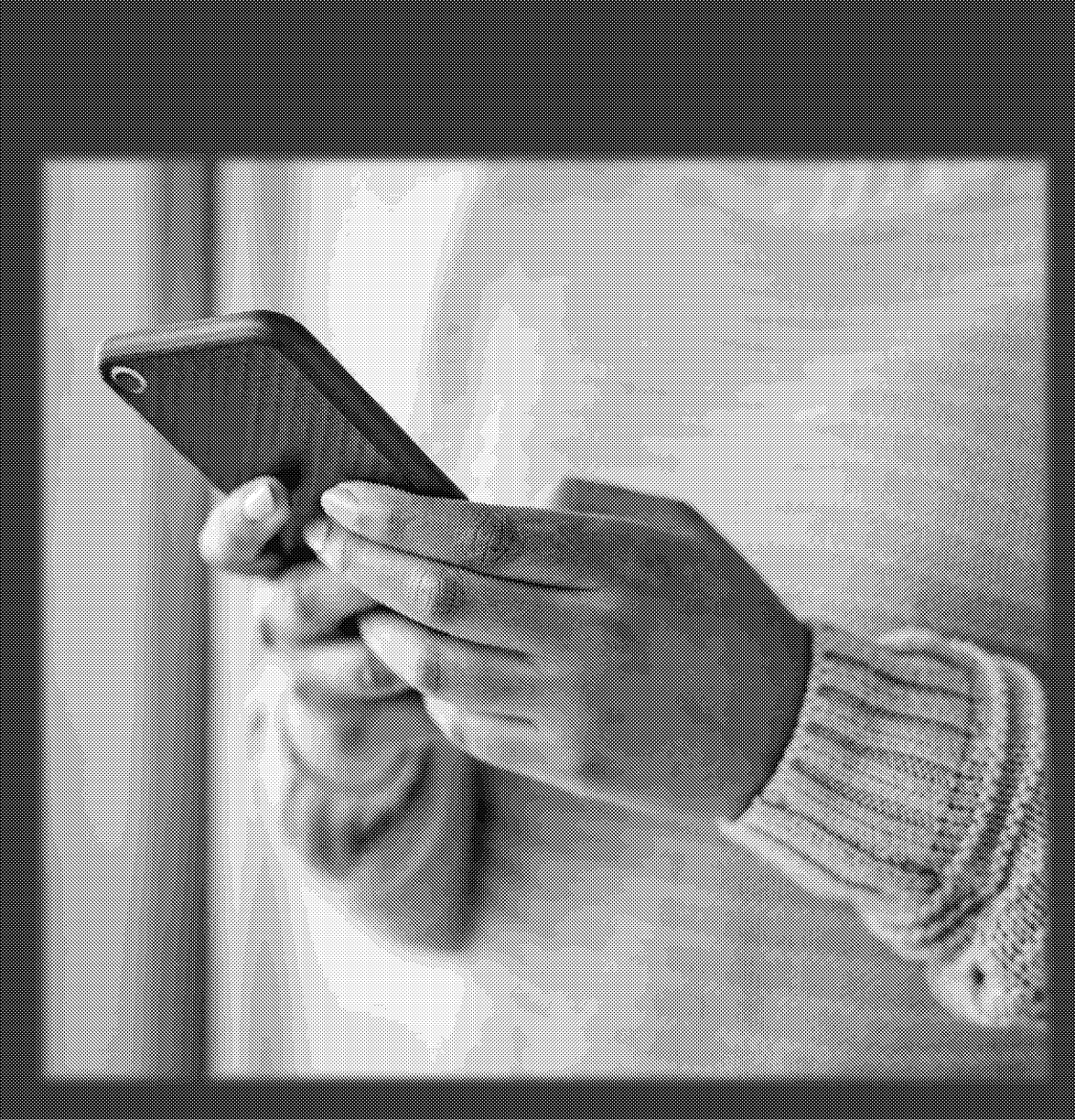
2

We are working to reduce this risk in three ways.

3

We want to hear from you.





**Please give us a call if you
are having technical
difficulties**

**215-814-5601
(Philip Workman)**

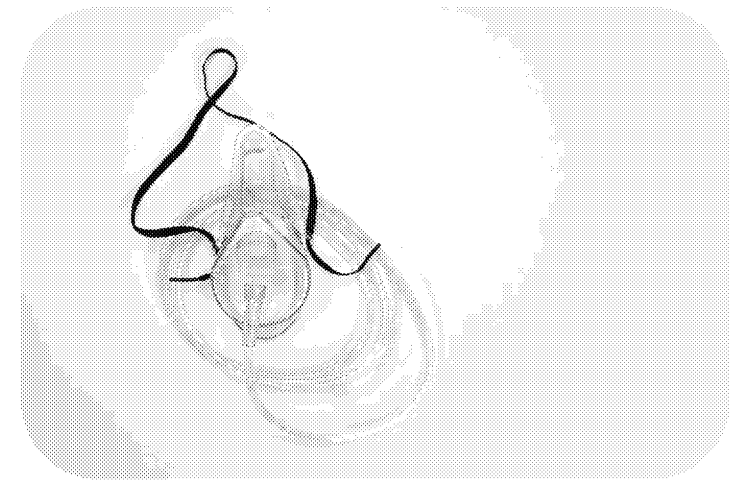
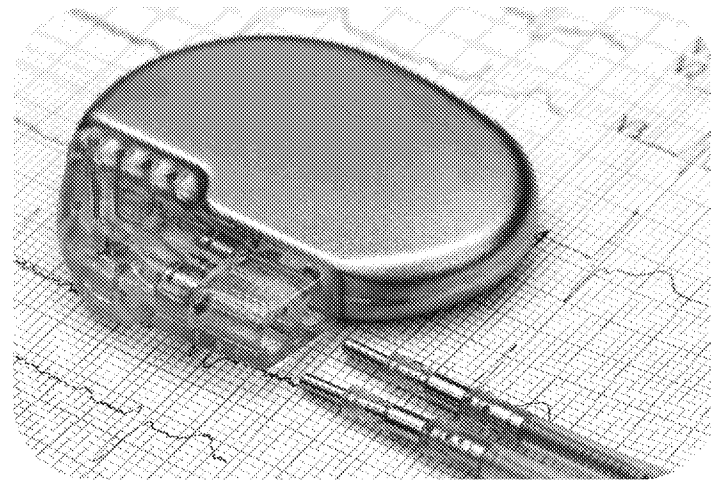
Contact Information for Risk Community and URL for EtO Information

<https://www.epa.gov/eto>

What is Ethylene Oxide?

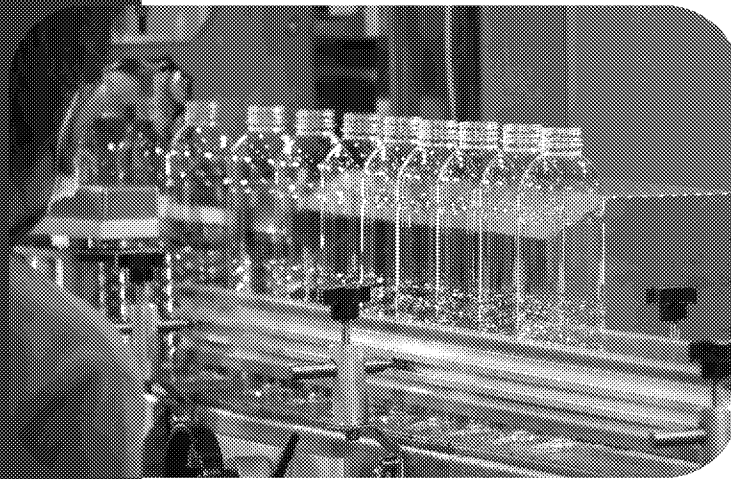
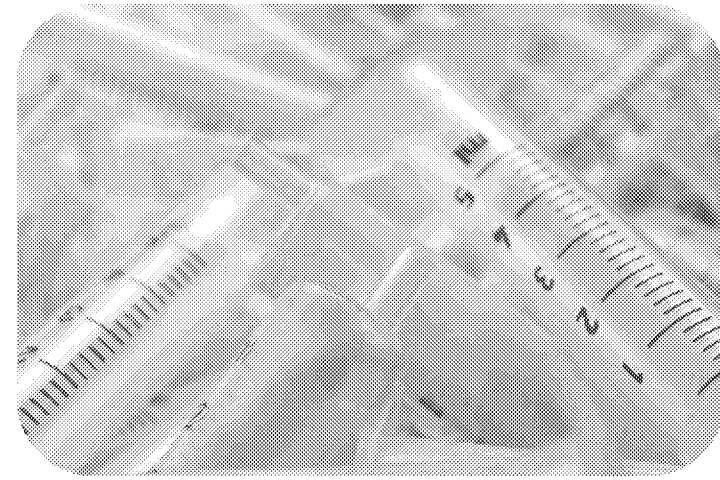
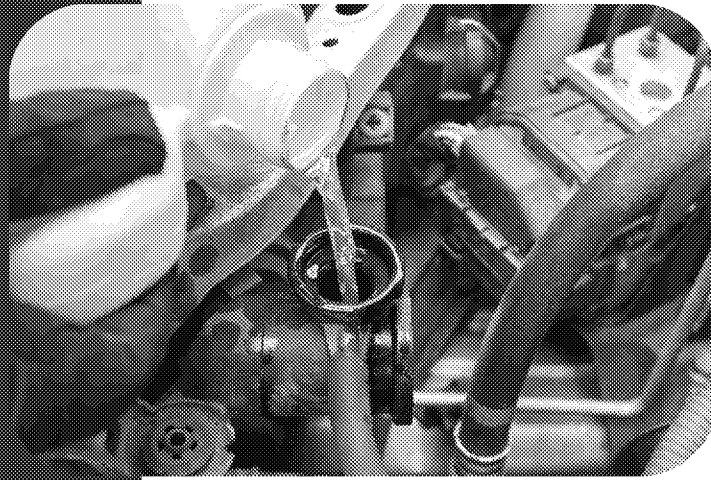
- **Gas**
- **Colorless**
- **Flammable**
- **Odorless**

*(in concentrations
we see in communities)*



EtO Uses

- Makes Other Products
- Sterilizes



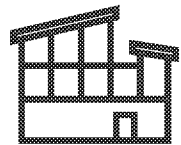
National Context



- Approximately **100** commercial sterilizers in the United States
- B. Braun is one of 23 with the highest risk (?)
- More information on all facilities at <https://www.epa.gov/eto>

Location of B. Braun Medical Inc.





1985

FACILITY BEGAN
USING ETO IN
YOUR
COMMUNITY



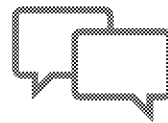
2016

ETO
DETERMINED
TO BE MORE
DANGEROUS
WHEN
BREATHED IN



2018

EPA LEARNS ETO
MAY BE CAUSING
RISK NEAR
FACILITIES THAT
EMIT IT



2019

EPA REQUESTS
UPDATED DATA
FROM
COMPANIES
USING ETO



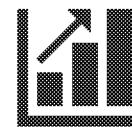
2020

EPA REQUESTS
DATA FROM ALL
COMPANIES
USING ETO



2021

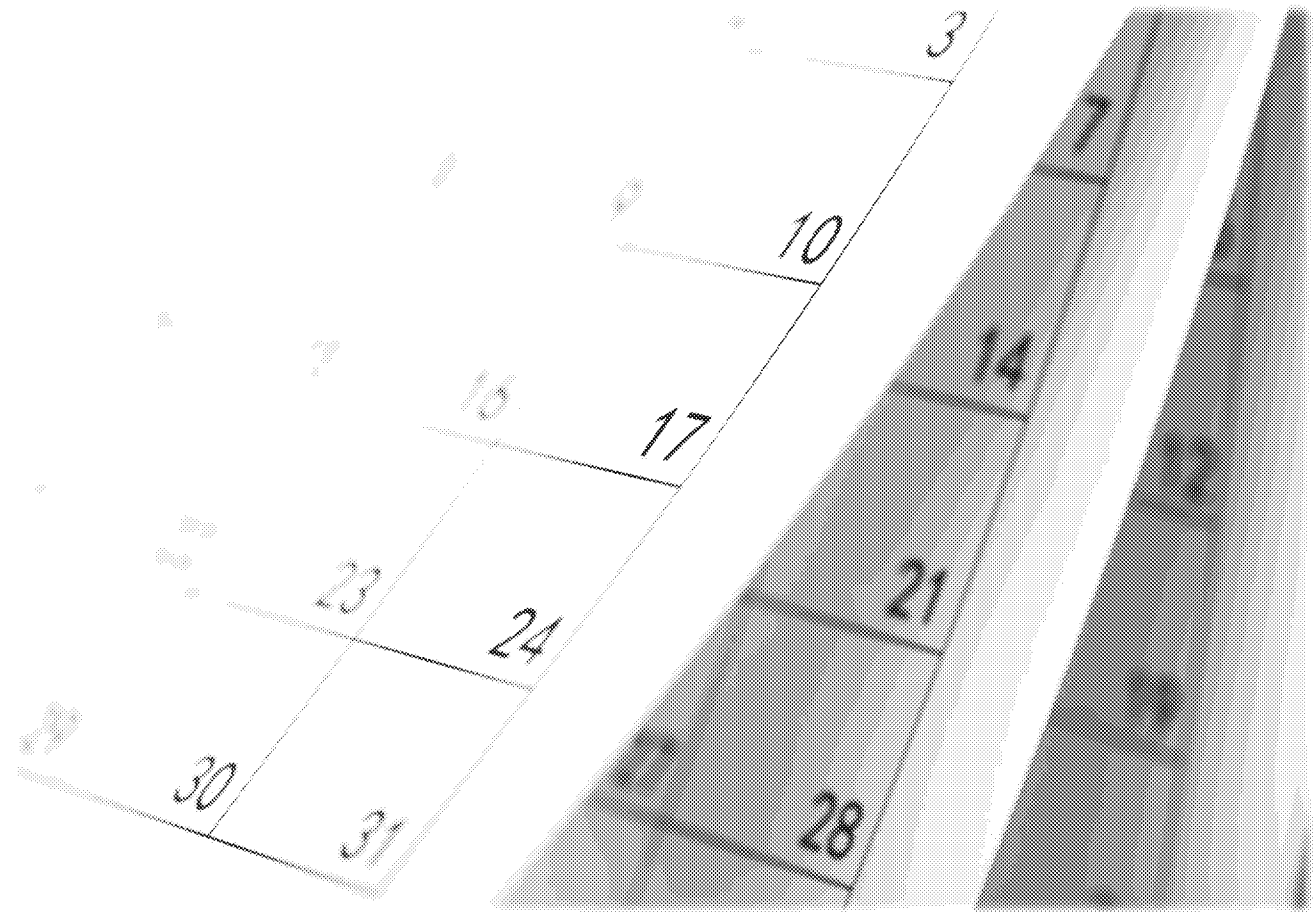
EPA USES MOST
UP TO DATE
INFORMATION TO
PREDICT WHERE
RISK IS HIGHEST



2022

EPA COMPLETES
RISK
ASSESSMENT
AND SHARES
INFORMATION
WITH
COMMUNITIES

**We do not believe
there to be
short-term or acute
risks associated
with EtO in this
community.**

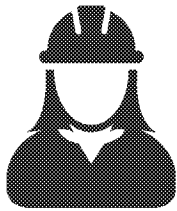


Over a 70 year lifetime

Breathing in EtO over
many years can cause
breast cancer and lymph
cancer.



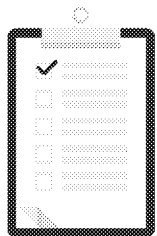
Special Considerations about Risk



Workers at sterilizer facilities may be exposed at higher levels.



Children and babies may be at higher risk.



This risk assessment and the rule it supports are focused on community risk not worker risk.

**Reducing EtO coming
out of facility is
the best way
to reduce risk.**

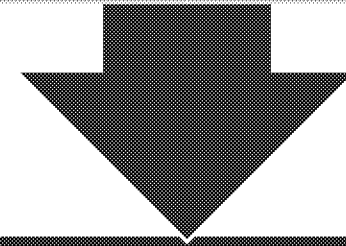


Where EtO Comes from at the Facility

There are two types of EtO
emissions from facilities:

**Controlled
Emissions**

**Fugitive
Emissions**



In this community, the majority of
the risk is being caused by fugitive
emissions.

How long are people exposed?

- EPA takes a protective approach when we consider timelines of exposure.
- We calculate risk as though an individual would breathe the air containing EtO 24 hours a day, every day, for 70 years.



For Updates and to Learn More

<https://www.eto/allentown>



Location of B. Braun Medical Inc.



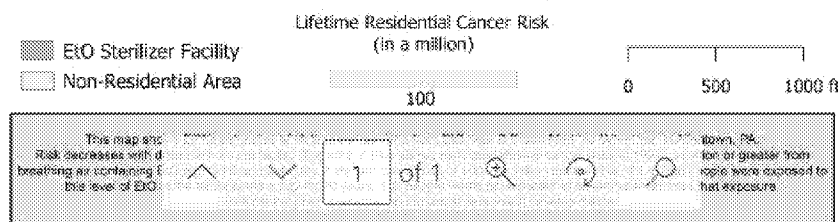
B. Braun Medical Inc. Allentown, Pennsylvania

Maximum Risk Level: 100/Million

B. Braun is now below 100/million

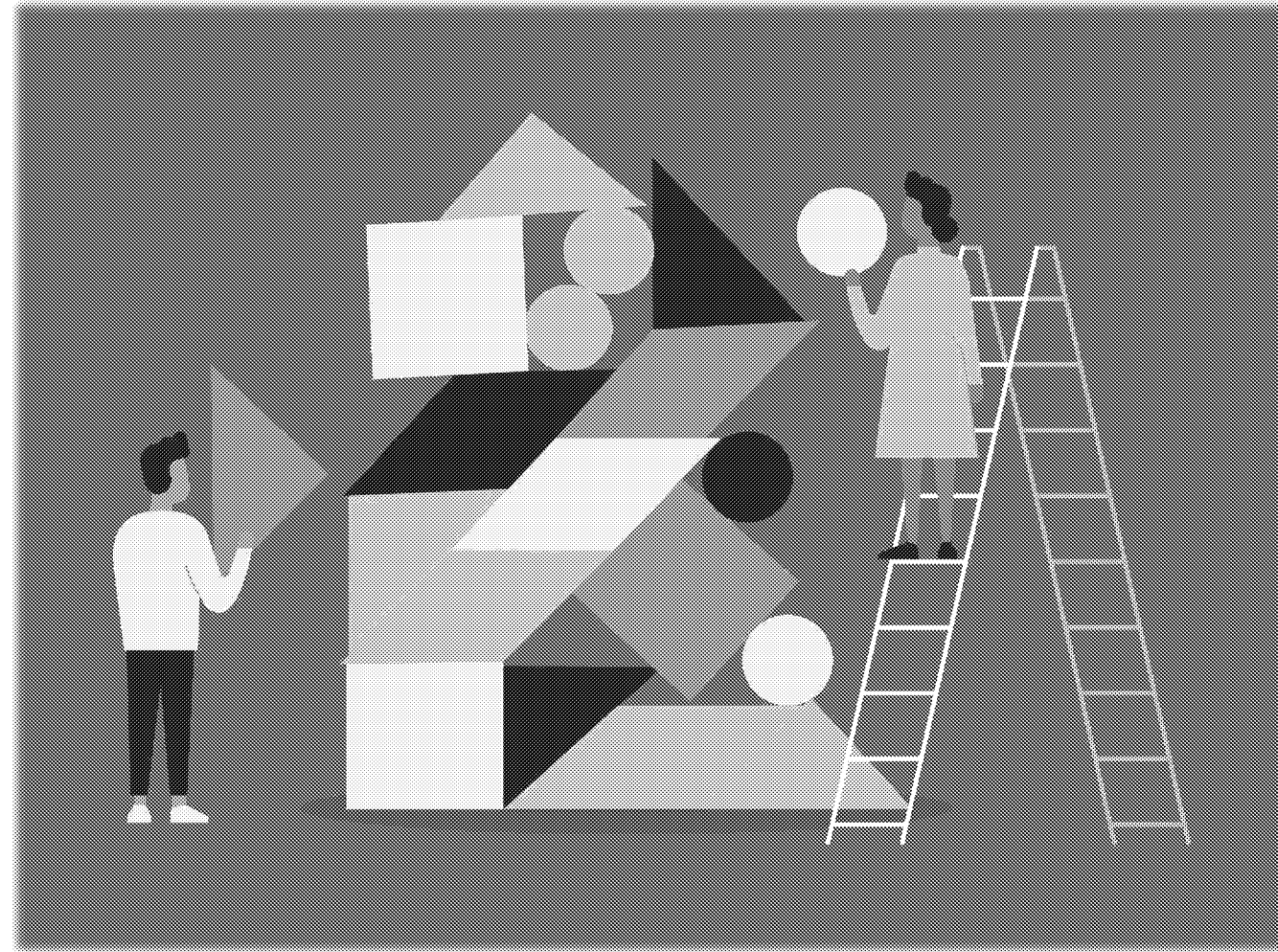
For more information and to view this map
online: <https://www.epa.gov/eto/allentown>

Lifetime Residential Cancer Risks - ETO Sterilization
B Braun Med Inc, Allentown, PA



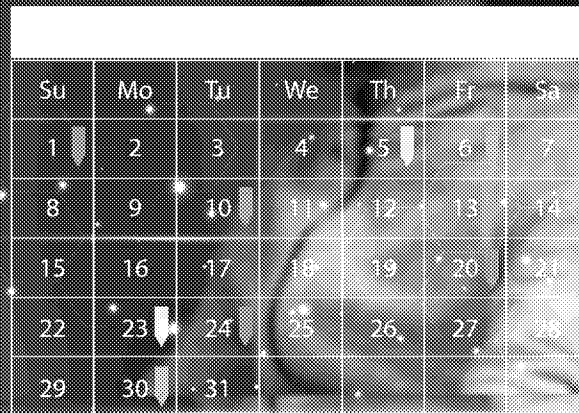
Work in Progress

- B. Braun has voluntarily installed two control systems in 2019 and in 2020 which has reduced EtO emissions over 90% from 2018 to 2021.
- Pennsylvania Department of Environmental Protection (PADEP) conducted a full air quality inspection in June 2021 and found no compliance issues.
- PADEP will continue to conduct routine inspections to verify compliance with air quality operating conditions.



Timeline

- New regulation to be proposed this year.
- The public comment period will last 60 days.
- Final rule is expected in 2023.
- Once the rule is final, facilities typically have 3 years to comply with new requirements.



Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Key Points

EPA has learned that EtO is causing health risk in your community.

We are working to reduce this risk by:

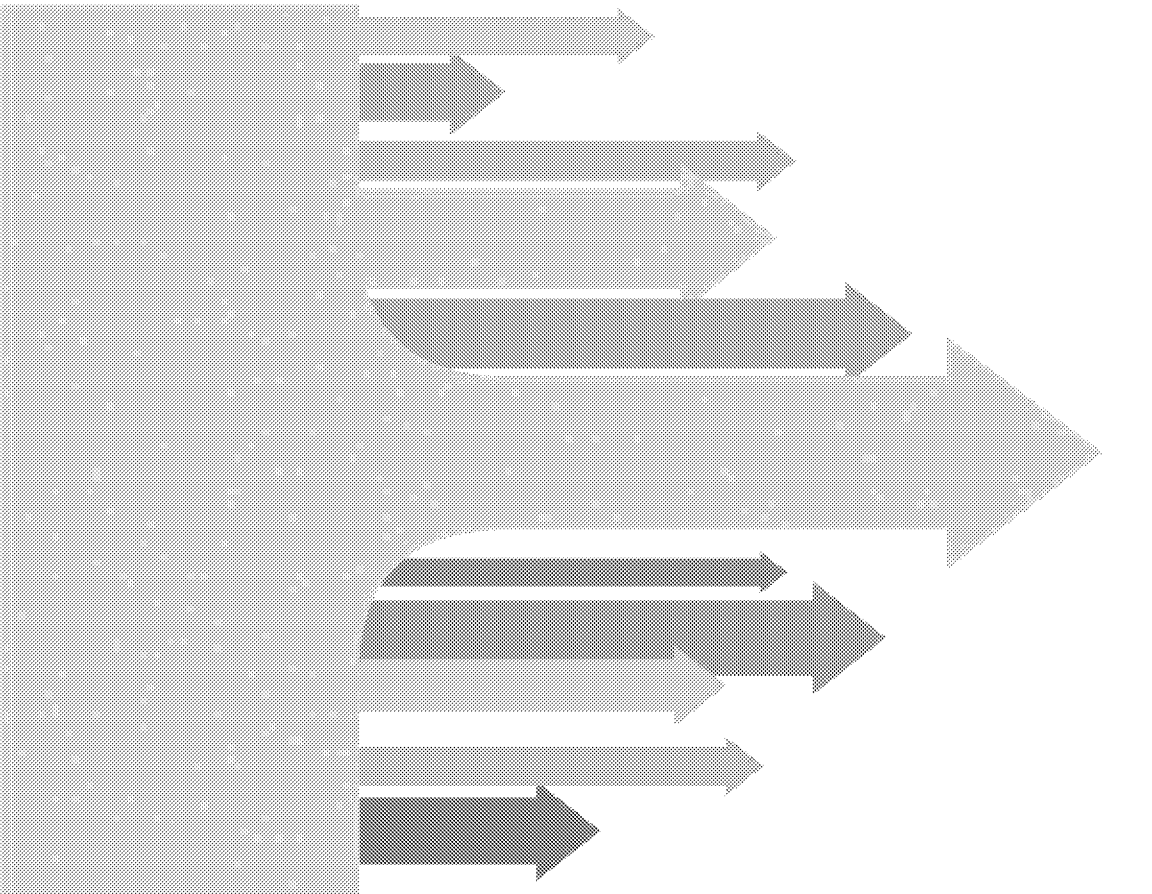
1. Working across government and industry to reduce EtO coming from B. Braun.
 2. We are updating air pollution regulations to be more protective of your health.
- We are sharing these risk results with you, so you have the same information we have. (CHANGE OR DELETE)

Two Options

- Raise virtual hand
- Use Q and A Module to type a question.



Next Steps

- 
- A decorative graphic on the left side of the slide. It features a vertical grey bar with a grid pattern. From the right side of this bar, a series of horizontal arrows of varying lengths and shades of grey point to the right. The arrows are arranged in a staggered, overlapping fashion, with the longest arrow in the center.
- New regulation to be proposed by the end of the year.
 - Go to <https://www.epa.gov/eto/allentown> to learn more and to sign up to receive updates.